

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Ho4bart@aol.com  
Subject: Re: "Target" BC-978-A  
Message-ID: <970226114934\_786908279@emout20.mail.aol.com>

In a message dated 97-02-25 17:04:56 EST, dfrancis@access.usa.net (Dexter Francis) writes:

<< I'm way outta my league here, as a child of the Viet Nam era, but I'd bet that rig was used  
as a low power transmitter to help track the location of target drone  
>>

i'll take you up on that & bet you 1 play money \$. target drones didn't usually carry any xmtr, certainly not a tunable one. 'target transmitter' is the term used for small portable xmtrs used to set up ( aim ) direction finding equipment.  
hue miller

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: 160M BA/GB QRG for a few more rounds.....  
Message-ID: <9702262115.AA102473@csemail.cropsci.ncsu.edu>

For the fun of it, I will be concentrating the BA/GB effort for a few last of the season hurrahs on the ol' top band. So, I invite any and all BA/GB folks to try 160M for the rest of the week and the weekend at 0300Z (10pm EST) and later until 0500Z or 0600Z or so (i.e., until us oldenpfartes gets horizontal). I will park the zerobeat on 1804 and be listening up and down 1 for 1802 through 1806 and see if anyone be about on watch. I will do the usual CQ BA CQ BA holler atop the hours. I will be using the regennie receivers and Hartleys/ArcusFivies/BiggieOldIron gear. 73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Larry Godek <AZCOT@gnn.com>  
Subject: 51S-1  
Message-ID: <199702261158.GAA28248@mail-e2b.gnn.com>

Larry Godek W00GH  
AZCOT@gnn.com

Gilbert, AZ. 85233

Ex-W6KQL, W8BPV, DL5LS, K0TA0, KN6TUP

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: BA trading is hard on the back!  
Message-ID: <Pine.SUN.3.95.970226001007.18653E-1000000@coyote.rain.org>

Got together with Hank, W6DJX, today for some serious trading. During his 2-hour drive from Lancaster I was dragging stuff out of the living room, garage, upstairs bedroom, attic, etc. and laying it out in the driveway much like a garage sale. He was bring NOSB HRO-500's, and I was laying out:

- 4 100% complete SCR-274-N 2TX/3RX systems (including splined cables, local tuning controls, right-angle drives, T-17 mikes & NOS hangers, NOS HS-33 headsets & both rubber and chamois NOS cushions, FL-8 filters, BC-366 jackboxes, NOS DM-32-A's, etc.
- 1 SCR-274-N as above except missing modulator/dyno/mount.
- 1 partial AN/ARC-5 (missing ant. relay and junction boxes).
- 2 BC-348-Q with manuals, mounts, and LS-3 speakers (for grins).
- 2 ARB with mounts, manuals, "coffee-grinders", operator's control boxes, splined cables, local tuning controls, etc.
- 1 NOS ARB spare parts kit
- 1 AN/ARC-2, manual, power connector
- 1 AN/ARR-15 with manual copy
- I-84, I-85, A-61A test kit for SCR-274-N
- Similar kit for ATA/ARA
- Set of ARC-5 bench test cables with clips for TX & RX rear plug
- Over 10 NOSB receivers & transmitters for SCR-274-N
- A \*bunch\* of modified & unmodified rx & tx (besides what was already in the racks for the systems above)
- A \*bunch\* of spare parts for the command sets; some NOS, some stripped out.
- More TX & RX racks & shockmounts, filters, jackboxes, control boxes, etc.

Feel like I've been beaten with a rubber hose! But Hank and I had a good time, even though it took a couple hours to box all that stuff up and load it on his truck. Now I'll have a lot less to ship to Florida when we move in a couple years, and I gained a bunch of additional space in the living room. What a job! Also the first really big swap I've ever been involved in. (You Marconi collectors quit giggling about my penny-ante deals! :o)

If you're interested in any of the stuff, you might contact Hank at (805) 943-2027. He's not up on the Internet yet, but is looking for an ISP and should be up within a couple months. I know he'll be taking

some of it to the (now) annual Military Radio Collector's Meet on the first weekend in May, up in San Luis Obispo.

73.....Ray Mote, K5FKT <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Ho4bart@aol.com  
Subject: Re: BC-348 v R1155  
Message-ID: <970226105419\_43954754@emout04.mail.aol.com>

i put this question to a friend and here's what he sent me.  
hue miller.

In a message dated 97-02-25 20:58:09 EST, you write:

<< I don't think that the R1155 "looks better" than the '348.  
I wish however it worked as good as it looked!!! I have owned  
bothe since 1952 ( off and on ) and it was always my experience  
that the 1155 was always more "lively"...soooo when the gentleman  
who claims <1uV made his pitch I IMMEDIATELY ran tests on all  
of mine. My experience was on a "best and worst". Using a  
HP 8640B....I found that on the lower ranges of the '348..typically  
6megs, I could achieve about 2-3 uV for 12dB S/N+N...average.  
On both my 1155's I could achieve 1-2 uV for 15dB S/N+N. The  
'348's do not "track well" on mixer noise. The 348's are a  
mechanical tuning problem....i.e. backlash...can be partially fixed  
and the i.f freq is too broad and the XTAL filter insertion loss too  
much!. I love the set..it looks great!! The 1155 looks "not as good"!!  
however there is virtually no backlash ( sse article on Jackson drive  
in R.B. ) the i.f is "normal" and the noise generated in the front end  
is minimal! I think the 1155 suffers in the U.S. with a "lack of critiques  
knowledge" on the design of "other peoples radio's". Tnx Hue!!

\*note: i think he means he wishes the 348 performs as well as it looks good.  
also by "normal IF i believe he means something in the traditional LF range.  
also RB = Radio Bygones, a super UK magazine on classic radio,  
from sparkstate thru solidstate. h.m.

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: "P. J. Rovero" <provero@connix.com>  
Subject: Re: BC-348 v R1155  
Message-ID: <Pine.BSI.3.95.970226123233.5837A-1000000@comet.connix.com>

Translation from English English to American English....

My (almost a teen) daughter said she didn't want me  
to take a job in London because she didn't want to have  
to learn a foreign language

P. J. "Josh" Rovero	email: <a href="mailto:provero@connix.com">provero@connix.com</a>
Oceanographer	work: <a href="mailto:rovero@sonalysts.com">rovero@sonalysts.com</a>
Meteorologist	radio: KK1D
Curmudgeon at Large	web: <a href="http://www.connix.com/~provero/">http://www.connix.com/~provero/</a>

On Wed, 26 Feb 1997 Ho4bart@aol.com wrote:

> \*note: i think he means he wishes the 348 performs as well as it looks good.  
> also by "normal IF i believe he means something in the traditional LF range.  
> also RB = Radio Bygones, a super UK magazine on classic radio,  
> from sparkstate thru solidstate. h.m.  
>

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Jim Coe <[jcoeb@brightok.net](mailto:jcoeb@brightok.net)>  
Subject: BC312 Transformers  
Message-ID: <199702260556.XAA28513@sooner.brightok.net>

I'm in the midst of reviving a BC312 which has had an RA-20  
graft. Unfortunately T1, the second detector audio xfmr, is  
kaput and it took out L35, the RA-20 power supply filter choke.  
At least that is the scenario I surmise based upon the previous  
owner's cut and paste job....

The choke is not really a problem as the space available will  
take one of my junk box denizens without much of a problem.  
If someone has a spare or even a spare RA-20 module, I would  
be interested just for the sake of keeping the unit original.

The audio xfmr is problematical as it resides in a limited  
space below the bfo module. I don't have anything that will fit  
the space and before I start searching the catalogs, I wonder if  
anyone might have a spare or may have found a form/fit substitute.  
The kaput xfmr was mfg by Chicago Transformer and carried T1 and  
SC1205A markings. It and the filter choke really overheated and  
leaked goo, but I've been able to clean it up fairly well.

The BFO tuning knob was also kaput. The set screw was seized in  
the brass insert and the knob looked like it had been chewed on by

a pack of pit bulls in an effort to remove it. It has to come off to get the BFO module out to gain access to the aforementioned audio xfmr. I managed to get the knob off, but I definitely need a replacement. It is the knob marked CW-OSC ADJUST. Anyone happen to have a spare?

Other than these problems, the receiver is in very good shape. I was able to get the B+ up to about 80V before the audio xfmr problem became evident. At about 60V, the signals were pouring out of the test speaker with only a 6-foot hank of wire as an antenna. No selectivity, of course, but since I used a BC-455 for almost two years as my main (only) receiver in the mid-50s, my natural filters are well practiced.

If anyone has spares or knows of a good source, I would appreciate private email. This group seems to have almost everything so I'm confident something will show up. I'm planning to be at the Ross Avenue first Saturday meet on March 1 (Dallas) and hope to see some BA'ers and BAs.....

73's.....Jim

-----  
Jim Coe W5JI                      Hollowstater should never  
Extra Class ex- K5MB0, W7CDX, KC7CLW      tell their paramours that  
Oak Crest (Antenna) Farm              the glow in their eyes  
Davis, Murray County, OK, USA      reminds them of a favorite radio!  
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From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Jim Coe <jcoeb@brightok.net>  
Subject: Collins transmitter modules  
Message-ID: <199702260556.XAA28520@sooner.brightok.net>

I have a Collins transmitter, or at least most of one, which consisted of several forced air cooled, 19-inch rack mount modules. It has some great parts which I have been tempted to pull out/off and use in some projects. Before I do so, I feel I should make sure no one on the BA list is looking for any of the modules to revive one of the transmitters.

I have not been able to identify the top level model number but I'm sure some of the astute Collins hounds will be able to educate me. The only unit which seems to have any AN type designator is the Frequency Generator module which is a type 786E-1 and has SG179/URC on one internal sub-module. The high voltage supply is a type 4298-1. I can supply the other

module designators if these turn on any light bulbs....

The RF amp looks like it may have used 4-250s or similar tubes.  
The unit covers 2 to 30 MHz and uses mostly subminiature tubes  
although the Freq Gen uses 6BA6s and 6AK5s and some great mechanics.  
Has several 300 KHz Collins mech filters.....

If anyone recognizes the unit and/or needs or wants parts of it,  
please let me know. I have enough projects on the list that it is safe  
until probably April.....

73's....Jim

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-----  
                Jim Coe  W5JI                Hollowstater should never  
Extra Class ex- K5MBO, W7CDX, KC7CLW    tell their paramours that  
                Oak Crest (Antenna) Farm      the glow in their eyes  
                Davis, Murray County, OK, USA  reminds them of a favorite radio!  
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From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Roger Hightower <n7kt@dancris.com>  
Subject: CQ magazines  
Message-ID: <3313CAAD.7E31@dancris.com>

Hi all. Im new to the list and have been just reading the posts for  
about a week. Saw some postings about old CQ magazines, and will take  
this opportunity to try to get rid of some I have.

1965	Feb, Dec
1967	Jan, May, Oct, Dec
1968	Feb, Apr, Oct
1969	Jan through Nov. No December
1970	March through July, Oct, Nov, Dec
1971	May, Jul, Aug, Oct, Nov, Dec
1973	Jan, May, Jul, Nov, Dec
1974	Oct, Dec
1975	Jan through May

\$1.00 each or any 12 for \$10.00. Saves having to take them to the  
hamfest next month.

BTW, this is a nice quiet list. I'm beginning to get interested in a  
Drake setup, and will continue to check the postings.

73, de Roger, N7KT

--

72/73 de Roger N7KT        Mesa, AZ     Grid DM43cj  
NorCal 40-9er, NC38S, NC-40A, Cascade, OHR Explorer 20, 30M, OHR400,  
HW-9  
NorCal 1099    CoQRP 176   QRP-L 62    G-QRP 9081   ARCI 8946   NE-QRP 383

From boatanchors@theporch.com   Wed Feb 26 14:23:17 1997  
From: jkh@lexis-nexis.com (John Heck)  
Subject: DX-20 Problems (con't)  
Message-ID: <9702261801.AA03647@beans.lexis-nexis.com>

Folks,

The DX-20 continues to puzzle me. Many good suggestions came in after my first posting and I checked these all out. It turns out that my DX-20 was never modified for VFO operation, so the best(read 'easiest') of the suggestions was no help. I did check out the meter circuit, though, and found a peculiarity. The Heath schematic calls for a shunt resistor on the grid side of the meter(a 500ohm jobbie) and a .005 mf shunting capacitor. These are also listed in the parts list. However, they are never mentioned in the instructions, nor in the pictorials, nor in the actual photos of the finished set, nor are they built into my xmtr. Strange. Anyway, the meter circuit seemed to be OK, including the plate side shunt resistor, which was right on value. I also checked the coupling cap between the plate of the 6DQ6 and the pi-network. It was also OK. I re-checked the tubes, also OK. I recleaned the switches, tube pins, etc, with DeOxit. I also built a light bulb dummy load, instead of using my MFJ antenna tuners dummy load. Lastly, I took heed of the advice of Jim Garland who suggested that I take a different attitude to the tuning process, instead of treating the controls like volume controls.

The end result of all this was encouraging but not a cure. Now, following the Heath instructions to the letter, I find that I can dip the amplifier, but only ONCE, then I run out of capacitance on the amplifier tuner. I am doing the following:

- 1) Tuning the oscillator to 2 ma with the rig set to TRANSMIT and TUNE.
- 2) Switching the meter to PLATE, switching to OPERATE from TUNE, beginning with the LOAD and AMPLIFIER tuners at zero.
- 3) The plate current pegs the meter at over 100 ma and I advance the amplifier tuneing cap until the current dips, bottoming out at about 75 ma. Then I advance

the load control to about 10(which Heath suggests), but I can't dip the amplifier  
at this setting, I run out of control.

I am definetly getting output. It lights the 75w bulb nice and bright. But I assume something is still wrong. I next plan to begin to lift likely components out of the circuit and test for duds. If anybody has a suggestion that might help I would appreciate hearing it. Thanks!

P.S. Many thanks to all those who have helped me with this project so far!

Regards,  
John Heck, KC8ETS  
1009 Donson Drive  
Dayton, Ohio 45429  
(513)865-7036(work)  
jkh@lexis-nexis.com

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Finally found that info on using Eimac tubes without blowers  
Message-ID: <9702261736.AA101677@csemail.cropsci.ncsu.edu>

Some time back, I made mention of using Eimac forced air cooled tubes that one would normally run with blower cooling, but WITHOUT blower air or any forced air cooling at all. Some folks laughed, but so did I. The article is in December 1975 Ham Radio, pp 28-30, and deals with using a 4X150, 4CX150, 4CX250 style tube in a small QRP amplifier for 50-100 watts output. Apparently, the author, W.S. Skeen/W6WR had personally witnessed tests at Eimac (somewhere the data for those is published but I don't know where, anymore) where the data indicated that these normally forced air cooled tubes could be run quite well, in ambient air (unrestricted), with no cooling at all at plate dissipations of 60-70 watts continuous key down. Under intermittent operation they will very easily handle 50 watts plate dissipation, no sweat. The article used this principle to design a neat QRP amplifier for 100 watts cw output without any cooling at all. About 1000vdc/150ma intermittent duty cw plate input could be had from a 7 watt QRP rig. I had a good friend, back when I was a novice, that I used to pal around with that ran a breadboard KW driven by an ARC-5 tx on 80M, running 2250vdc at about an amp through 3 or 4 uncooled 4CX-250B tubes. The thing ran like a battlegwagon, for many years on 80CW. Although forced air cooling is the best way to go, it shows you what can be done in non-forced-air cooled mode, if you do it right, and follow the rules. Food for thought for some of those junkbox unknown Eimac forced-air cooled tubes in the 100/200 series that often show up in hamfest boxes, if you



can get them for a buck or two, they might make good playtoys.

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Dennis Gibbs <dgibbs@rational.com>  
Subject: For Sale - Collins broadcast Transmitter  
Message-ID: <01BC23BE.05C53560@dasher.rational.com>

Greetings everyone,

A friend of mine is selling a transmitter that I thought might be of interest to boatanchor list subscribers. Please contact him directly, not me.

FOR SALE: 1953 Collins 20V-2 broadcast transmitter fully restored; motorized Variac for Hi/Low power. Window features a pair of 4-400s modulating a pair. VFO/Xtal operation; set up for 160 meters. PTT/Ant changeover; full documentation. Unit is on casters. \$4K. W3HM, (304) 876-6483 (Please call between 7PM and 9PM EST). Can also be contacted at w3hm@juno.com. Transmitter located in West Virginia.

Dennis

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: John <jackiv@postoffice.worldnet.att.net>  
Subject: FS halli SR-2000  
Message-ID: <19970226170717.AAA26482@LOCALNAME>

A HAM FRIEND WD9HGI has his SR-2000 with power supply for sale. he wants about \$850.00 for the set, its on the air and the 8122's seem to have full output.(quote) Also the HA- 20 vfo is available as a separate deal, some where about \$140.00. You can reply to me or direct to jim. I will give twisted pair number on request.

TNX 73  
Jack iverson  
(847) 359-0941

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Eugene Rippen <soundval@foothill.net>

Subject: FS: MORE BOOKS

Message-ID: <331474C6.6B91@foothill.net>

Following books are for sale:

"THE RADIO AMATEUR'S HANDBOOK" 43rd Ed. 1966 g-vg \$12.00  
"THE RADIO AMATEUR'S HANDBOOK" 52nd Ed. 1975 g-vg \$10.00  
"THE RADIO AMATEUR'S HANDBOOK" 47th Ed. 1970 f-g \$8.00  
"THE RADIO AMATEUR'S HANDBOOK" 31st Ed. 1954 f \$12.00  
"THE RADIO AMATEUR'S HANDBOOK" 42nd Ed. 1965 vg \$13.00  
"THE RADIO AMATEUR'S HANDBOOK" 29th Ed. 1952 f-g \$13.00  
"THE RADIO AMATEUR'S HANDBOOK" 35th Ed. 1958 f-g \$12.00  
"THE RADIO AMATEUR'S HANDBOOK" 40th Ed. 1963 p-f \$5.00  
"THE RADIO AMATEUR'S HANDBOOK" 28th Ed. 1951 f \$13.00  
"RADIO HANDBOOK" 11th Ed. Editors and Engineers 1947 f-g \$13.00  
"RADIO HANDBOOK" 12th Ed. Editors and Engineers 1949 f-g \$13.00  
"RADIO HANDBOOK" 13th Ed. Editors and Engineers 1951 g \$14.00  
"RADIO HANDBOOK" 13th Ed. Editors and Engineers 1951 f \$12.00  
"RADIO HANDBOOK" 14th Ed. Editors and Engineers 1956 f-g \$13.00  
"VIDEO HANDBOOK" Scheraga & Roche, 1949 5"x7", HB 892 Pages g \$14.00  
"TRANSISTOR SUBSTITUTION HANDBOOK" 5th Ed. 1964, Sams, g \$1.50  
"TRANSISTOR MANUAL" 3rd Ed. GE, 1958 g \$2.00  
"THE RADIO AMATEUR'S LICENSE MANUAL" 50th Ed. ARRL 1963 g-f \$1.00  
"THE RADIO AMATEUR'S LICENSE MANUAL" 53rd Ed. ARRL 1964 g \$1.50  
"LEARNING THE RADIOTELEGRAPH CODE" 9th Ed. ARRL 1961 g \$1.00  
"HINTS AND KINKS" Volume 6, ARRL 1959 f-g \$1.50  
"ALLIED DICTIONARY OF ELECTRONIC TERMS" 5th Ed. Allied Radio  
1960, g \$1.00  
"ALLIED'S RADIO DATA HANDBOOK" 1951 Allied Radio, g-vg \$1.50

Add shipping. One book shipping is \$2.00. Two or more books are a total of \$3.00 for all. Shipping prices in U.S. only.

Eugene Rippen, 105 Donnington, Auburn, CA 95603. No phone calls please.

Please use Email.

If I do not respond in 24 hours, please presume they have been sold, and are no longer available..

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997

From: Eugene Rippen <soundval@foothill.net>

Subject: FS: FEW OLD QST's

Message-ID: <331474F8.5E2E@foothill.net>

Following QSTs are for sale. They are in good condition.  
Price is \$2.25 each. Plus shipping of \$2.00 plus 25 cents for each magazine.

1935: January, February, March, May, July, August, September, December(2),  
1936: January, February,  
1937: January

Eugene Rippen, 105 Donnington, Auburn, CA 95603. No Phone Calls Please.  
Please use Email.

If I do not respond in 24 hours please presume they have been sold.

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Ronnie Hull <larebel@ms1.nwla.com>  
Subject: Galaxy V P/S  
Message-ID: <1.5.4.16.19970225183417.27cf8d6a@ms1.nwla.com>

Howdy Ya'll

I have a freind in terrible need of a power supply /  
speaker combo for a Galaxy V Mark III. Or, just the  
power supply will do. Let me know if anyone has  
one and I'll purchase it and get re-imbursed by him. He  
will also need the cable that connects the ps to the radio.

a manual copy would be nice too.

Ronnie - W5SUM

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Jack Harper <jharper@bs2000.com>  
Subject: Re: Going to a boring social function? Take a schematic  
Message-ID: <199702260433.VAA16406@lynx.csn.net>

At 20:32 2/25/97 -0600, Jeff KH2PZ wrote:

>I knew in advance it was going to be a long drawn out affair - the  
>dinner buffet would be great but having to sit through 5 hours of  
>speeches and "entertainment" would have me crawling the walls. What  
>to take along? A schematic, of course. Why? Because, unlike reading  
>a book, it doesn't take much concentration to study. Also,  
>you can periodically look up (so as not to be rude) and not lose  
>your place as easily as with a book. In addition, other folks

```
>respect you for bring your "work" along with you.  
>  
>After those hours studying its schematic, I got to know my HW-16  
>a bit better Sunday night. Sure makes a radio more fun to operate  
>when you know its "insides" almost by heart.  
>  
>73 from Hawaii,  
>Jeff KH2PZ  
>  
>
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Did you also take along your slide rule?...

Good Lord! ...and my wife thinks that she has it bad... However, I took along a little battery operated QRP rig on our 'honeymoon' seven years ago to New Zealand (cashed in a whole bunch of United Frequent Flyer Miles...). Actually got a ZL call and everything (it was great!). 2am and there's Jack and Kathleen in the hotel... with Jack over by the window trying to load up the rain gutter to work the States on 20m cw with a flashlight battery... She kept suggesting that 'perhaps your batteries are dead'... Took me awhile to figure out the joke.

Regards to all (especially my wife)

Jack, KCOLR (Friend to all things Hammarlund)

Jack Harper  
e-mail: [jharper@bs2000.com](mailto:jharper@bs2000.com)  
voice: 303-277-1892 fax: 303-277-1785

Bank Systems 2000, Inc.  
350 Indiana Street, Suite 800  
Golden, Colorado 80401 USA

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1024-bit PGP crypto key with ID: 8FB07075 created 960728  
Fingerprint: 75 DA 06 35 F8 3D AC EC 3A F2 7C 59 A1 11 A5 74  
Key available from Public Key Servers and above Web Page

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Jeffrey Herman <jeffreyh@hawaii.edu>  
Subject: Going to a boring social function? Take a schematic along...  
Message-ID: <Pine.GS0.3.93.970225161902.20961B-100000@uhunix3>

I knew in advance it was going to be a long drawn out affair - the

dinner buffet would be great but having to sit through 5 hours of speeches and "entertainment" would have me crawling the walls. What to take along? A schematic, of course. Why? Because, unlike reading a book, it doesn't take much concentration to study. Also, you can periodically look up (so as not to be rude) and not lose your place as easily as with a book. In addition, other folks respect you for bring your "work" along with you.

After those hours studying its schematic, I got to know my HW-16 a bit better Sunday night. Sure makes a radio more fun to operate when you know its "insides" almost by heart.

73 from Hawaii,  
Jeff KH2PZ

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: ARONGV@aol.com  
Subject: Help Needed  
Message-ID: <970226113632\_1515270995@emout07.mail.aol.com>

Hi Gang:

Few months back, I asked the list for some input on a Sargent 21 MA communications receiver.

Finally got it on my bench, but still don't have any schematic or tech/alignment data available as yet.

For what it's worth, a nice picture of it is on page 109 of Ray Moore's book "Communications Receivers," The Vacuum Tube Era: 1932-1981. It shows up on the page as the 21 AA, which must have been an earlier/or cheaper version.

Built like a tank, it is very clean inside & out & complete with speaker (big Jensen in the box). However.....you knew there would be a catch.....on bringing it up on the Variac, I'm getting filament voltage, but no B+. Xmfr doesn't get hot and first run through the parts reveals no obvious burnt, disconnected dripping caps or otherwise shot parts. Now it's time to troubleshoot.

So I hope someone has access to at least a schemtic of this unit. I don't have access to Riders or other documentary info. I'd be more than willing to pay for the effort.

By the way, I thought I'd add that, as a few of you may already know, the Sargent receivers were designed for marine use. They include all the ham bands, but they show up as bands 1, 2, 3, then it goes to broadcast and well below in 7 bands. Just the reverse of anything I've seen in general coverage receivers.

Thanks & Good Hunting

73s    Ron W00IZ    Kansas City

From boatanchors@theporch.com    Wed Feb 26 08:17:29 1997  
From: shep shepard <shep@northlink.com>  
Subject: HO-10 XSFR &32V3 Manual WTD  
Message-ID: <199702260101.SAA20780@smtp.northlink.com>

i am on the hunt for the following:

Original 32V3 Owners manual and any other Collins 32V3 literature, etc,

A good working transformer from the Heath HO-1 Monitor Scope

Thanks!

From boatanchors@theporch.com    Wed Feb 26 08:17:29 1997  
From: Morris Odell <morriso@vifp.monash.edu.au>  
Subject: HP Plug-ins - info wanted  
Message-ID: <331415E5.7AFB@vifp.monash.edu.au>

Firebottlers,

I have 2 HP plug-ins intended for the 524B (B for behemoth) vacuum tube electronic counter. These are the 525A frequency converter and the 526A video amplifier. I am in need of manuals or at least a schematic for these, especially the 525A freq converter - it's quite a complex unit and is not working properly unlike the 526A.

Any help from the group would be greatly appreciated

73

Morris VK3DOC  
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: ITEMS FOR SALE  
Message-ID: <9702261402.aa04930@pcusa01.ecunet.org>

For Sale--

Heathkit HD-1422 Antenna Noise Bridge  
Ss, portable. Accurate to 30 MHz, works FB, excellent condition except for a scratch on top of case. Gives R and X of antenna or whatever load. With factory manual. \$35 plus shipping.

Eico 488 Electronic O'scope Switch.  
Gives dual channel capability to low frequency, single channel scope. Chopping freq adjustable 100 to 2000 Hz. Size 8x6x5". Controls: Amplitude 1, Amplitude 2, Positioning, Freq. Selector, Freq. Vernier. Good physical condition complete (except for 3 missing knobs), no mods, will clean up nicely, looks factory wired. Tubes: 2@ 12AU7, 2@ 6AU6, 6X5. Functions partially but needs electrical work (switching not waveform is not right). No paperwork. \$16 plus shipping.

Gavin Instruments 'Maverick TVI Filter' for six meters.  
Has five adjustable L-vari C sections in 2x3x5" box, S0-239's at each end. Handles up to 400 watts AM. With instruction sheet. \$12 plus shipping.

Globe Chief 90-A.  
Appearance poor, chassis sags a bit near xfmr, output coil form on top of chassis is broken at its base (looks fixable). Pair of 807's missing, 5U4 & 6AG7 there. Otherwise complete & no obvious mods. Electrical condition unknown but lights up ok so pwr xfmr seems allright. No paperwork. \$35 plus shipping.

Heathkit TS-3 T.V. Alignment (sweep) generator.  
Sweep carrier frequency 4 to 220 MHz, marker generator 19 to 180 MHz plus xtal marker. Good condition, will clean up nicely. Works FB. With op, svc data and schematic. \$25 plus shipping.

Truly Antique:

Automotive electrical test device in 8 x 8 x 4" wooden box, leatherette covered, stiff wire hanger on top. Made by T & H Mfg. Company, Kansas City, MO, circa 1930s. Meter reads 0-15 volts & 0-1.0 uF capacitance. Selector switch settings: off, high voltage, glow tube, capacity mfd's., voltmeter, off. Uses type 80 rectifier tube. Runs off 110 VAC. Not tested. No paper. \$18 plus shipping.

Westinghouse portable BC radio, model H-304P4.

Tube lineup: 1R5, 1U4, 1U5, 3V4. Runs on 110 VAC or batteries. Size 8x9x5". Tan 'marbelized' plastic cabinet. One knob broken. Good condition, no case cracks, no corrosion from battery, will clean up nicely. Needs power supply electrolytic cap replaced. \$25 plus shipping.

Another antique:

Radio chassis, possibly Arvin (name found on speaker and one bypass capacitor can), circa mid-30's. Tube lineup: 41, 6B7, 78, 6A7, 78 (tube type engraved into each socket) but no tubes included. Covers AM bdcst band+, below 530 to above 1900 KHz. Superhet with tuned RF stage (3-gang tuning cap). All terminals on RF, oscillator, mixer & IF cans are each labeled as to function, e.g. B+, plate, AVC, grid, etc. Pair of 175-KHz double-tuned IF cans. This is a "farm radio" which runs from 6 VDC, vibrator supply built in (vibrator missing); can be run fine using 6 VAC input w/o vibrator. Lots of shielding, tuning cap cover & 4 tube shields. Deep drawn steel chassis 9 x 7 x 14". No knobs. Tone control. 4" backlit plastic dial in excellent shape. All grid cap connectors present. Vernier tuning. Bypass caps high quality types in small metal cans with one end affixed to chassis (like Motorola VHF FM rx strips). Fair-good appearance, should clean up fine, wiring & all components appear in good shape, just a small bit of wiring is rough. Bakelite antenna terminal strip is broken. Original assembly paint marks on some soldered connections plainly visible. Stored in very dry conditions, only few small bits of rust on some rivet heads and a little corrosion here and there. Includes 8" speaker & plug with field coil but cone is very torn. \$35 plus shipping.

\*\*\*\*\*

Email me directly on these, pse.

-John Sehring (02/24/97 4:25 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997

From: "Allan Fritsche" <fritsche@msn.com>

Subject: Liability on selling Boats

Message-ID: <UPMAIL03.199702260140300864@msn.com>

Hey Gang, was down on the bench working on a 1945/6 Zenith tonight.

I got to thinking. Which is dangerous for me.

What kind of liability do I incur if I sell this neat little guy to someone and he plugs it in and electrocutes himself.

Same, I guess with buying from a swap meet counter. If no receipt, no trace back, etc.

I am not real worried about all this, because I trade with folks that have



some concept of Transformerless mini boats, like an S-38, but to trade something to a guy on the street that can't replace D cells in a flashlight is something different.

In my Pea Brain, I think this was discussed about 2 years ago.

Anyone remember or am I just paranoid.

Thanks Al

fritsche@msn.com

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997

From: "Karl-Arne Markstr\vm" <kam%a1.mrgst.umd@radux.hk.mobitel.telia.se>

Subject: Looking for parts for RF test equipment

Message-ID: <74751162207991/1058208@MRGST>

Boatanchorites,

I am posting the following on behalf of an old friend and  
BA test equipment enthusiast Ulf, SM6GXV:

He is looking for two Detector Probes PMI 13782 to be used with an  
old PMI 1038 Scalar Network Analyzer.

Also looking for a return loss bridge for the aforementioned instrument.

The instrument has code 20, s/n 1176.

If anyone can help, please E-mail answers to:

ukl@sys.sigma.se

While not exactly BA, the equipment is large and heavy, and does contain a CRT...

73/

Karl-Arne Markstrom

SM0AOM

kam@stoa.mobile.telia.se

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997

From: rdkeys@csemail.cropsci.ncsu.edu

Subject: Looking for specs on 70H3 and 70H9 ptos as possible vfos

Message-ID: <9702261652.AA101523@csemail.cropsci.ncsu.edu>

I went digging in the bilges for some parts for a project, and found a couple of long-hidden dusty musty military collins type PT0s. One is a 70H3 and the other is a 70H9. They are 2-tuber ptos.

I think the 70H3 is from a T-195/GRC-19, but have no idea what the specs are on the other one. I picked up one at a hamfest and got the other from Fair Radio back when I was a Novice, so they just sat for years. Now, my fingers be gettin' itchy ta fires them up on the BA/GB QRG's if they will cover them.

They are not listed in the usual articles in HamRadio and CQ/73/QST on PT0s, that I can find.

Anyone know the voltages/frequency-ranges/pinouts of either of these PT0s?

TNX/73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: kb5ww0@juno.com (George Folse)  
Subject: Lost email add.  
Message-ID: <19970225.220124.2271.0.kb5ww0@juno.com>

To Jim Wood  
Your rec. was shipped on 2-26-97.  
Lost your email address.  
Thank you  
George KB5WW0

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Dave Wood <W4EJ@coastalnet.com>  
Subject: March 8 Puyallup (WA) Swap Meet.  
Message-ID: <199702261624.LAA03181@abaco.coastalnet.com>

Jim and the gang, The Puyallup hamfest is a great BA fest. I have gone the past five years ( travel to Wa. from NC every March). Many nice mint stations. Seems to be unique to the northwest! It's best to reserve a table space then one can hamfest the Friday afternoon before the general admission and pick the place clean. 73 Dave

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Jim Coe <jcoeb@brightok.net>  
Subject: Millen Phase Shift Network

Message-ID: <199702260556.XAA28517@sooner.brightok.net>

I have a NIB Millen 90-degree differential phase shift network that I bought many moons ago for a project that wilted on the vine of time. I've kept it for around 40 years since I'm a real pack rat, but I don't foresee using it and thought someone on the BA list might be in need of one.

I don't really know what value to put on it, but I seem to recall I paid about \$30 in 1960's dollars for it. How about \$30 and I'll spring for USPS Priority Mail CONUS? If I'm off base on the price, make me an offer rather than just flaming me to death, please!

I'll keep this open till Feb 28.....

73's....Jim

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-----  
                Jim Coe  W5JI                Hollowstater's should never  
Extra Class ex- K5MBO, W7CDX, KC7CLW    tell their paramours that  
                Oak Crest (Antenna) Farm    the glow in their eyes  
                Davis, Murray County, OK, USA  reminds them of a favorite radio!  
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From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Thomas Bowes <bowes@klondyke.net>  
Subject: More Estate Stuff FS  
Message-ID: <3313ABFA.56FF@klondyke.net>

Further down the pile of estate junque I have found the following:

A PE-120-B power supply. Looks to be in good shape. Any takers at \$25 plus shipping. Any offers?

A TS-226A/AP power meter. Also in good conditon. I have no idea what this one is worth, but would be happy to entertain any reasonable offers.

I still have a couple each of the 5CP1 and 5HP1 scope tubes. Being that I had no responses to my last posting for these at \$5 each I suppose that I ought to just open it up for offers of any sort. Please, help get rid of this stuff! Give them a good home where they will be loved, preserved, and maybe even used.

--  
"Tom"

Thomas Bowes  
KK8M  
35332 Churchill  
Richmond, Michigan 48062-1179

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Neat dualtriode vfo article that looks usable for BA/GB  
Message-ID: <9702261718.AA101619@csemail.cropsci.ncsu.edu>

I know we all need xtals for our pet projects, BUT, there are times when a vfo is worth having, and I found a very simple, neat one that might be of use to the BA/GB folks. It is by E.H.Marriner/W6BLZ in Dec 67 CQ, pp 40-41. Marriner wrote a lot of neat handson stuff in CQ in that era, and this vfo is a very simple Clapp oscillator with cathode follower, using a plain 12AU7 (or equivalent would work too) dualtriode tube, with none of the parts being particularly critical. It could be made to work on 80 M although 160 should work just fine too, by scaling the coil and adding some additional tank capacitance in the Colpitts voltage divider. This thing was designed to be a 3 volt output generic xtal replacement. Ahh, the elegance of simplicity in ham radio.....

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Neat WELL BUILT classic regen receiver design found finally  
Message-ID: <9702261710.AA101588@csemail.cropsci.ncsu.edu>

After great gobs of digging through old hamrags last night trying to find some articles on various topics, I ran across that excellent article on Hijaime Suzuki's 60's regen receiver that I had mentioned earlier. It is in Feb 66 CQ, pp 89-92, and also referenced in Dec 64 CQ. If you are looking for a latemodel regen design, you might consider something like this. It always impressed me as a very well done design using a 6AU6 and a 6AV6. The only things I would do differently would be to loosen up the antenna coupling, decrease the grid coupling, and choke or xfmr couple out the audio (I don't use xtal headfones), and that is being very picky. It is an impressive little set.

73/ZUT DE NA4G/Bob UP.

p.s. The weeceiver article (regen built on a sucrets lozenge box chassis) is in October 67 CQ pages 23-25. This is a neat teensieweensie set

about 2 x 3 x 3 inches in size. If you like TINYTUBEGEAR you will like this one.

p.s. Another very interesting regen article for a 3 tuber with RF stage and speaker output is in August 66 CQ pages 54-57, 105-106. This one uses a grounded grid RF isolation stage, a pentode detector, triode first audio and beam audio output stage, as part of a small xcvr. This is a fairly serious regen receiver and companion transmitter.

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997

From: Ho4bart@aol.com

Subject: Re: Neat WELL BUILT classic regen receiver design found finally

Message-ID: <970226112247\_-2009009570@emout12.mail.aol.com>

In a message dated 97-02-26 10:53:34 EST, rdkeys@csemail.cropsci.ncsu.edu writes:

<< 6AU6

and a 6AV6. The only things I would do differently would be to loosen >>

i'm just curious, but in a from scratch construction, i would go for something, in a 2-bulb limit, like 6EJ7 det plus 6AK6 audio, or maybe even a voltage amp pentode output like 6BA6 thru a big stepdown xfrm to headphones. why not in new construction use the best tubes available, unless the idea is to build a commemorative type thing, like a 2 x 30 Doerle.

"Commemorative Regenerative Radio Receiver".....hmm, that makes quite a nameplate.....

hue

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997

From: rdkeys@csemail.cropsci.ncsu.edu

Subject: Re: Neat WELL BUILT classic regen receiver design found finally

Message-ID: <9702261841.AA101912@csemail.cropsci.ncsu.edu>

> << 6AU6

> and a 6AV6. The only things I would do differently would be to loosen >>

>

> i'm just curious, but in a from scratch construction, i would go

> for something, in a 2-bulb limit, like 6EJ7 det plus 6AK6 audio, or

> maybe even a voltage amp pentode output like 6BA6 thru a big

> stepdown xfrm to headphones. why not in new construction use

> the best tubes available, unless the idea is to build a

> commemorative type thing, like a 2 x 30 Doerle.  
> "Commemorative Regenerative Radio Receiver".....hmm, that makes  
> quite a nameplate.....  
> hue

Hey, I like the commemorative idea.....Hmmm.... but that aside.....

Regarding using new(er) tube types or ``hotter'' tube types in regen sets:

I have no problem with that. I was just throwing out what others had done. On the average 40/80/160M band use of these, I really can't tell any difference, whatever tubes I use. I am almost always on the lower HF 160/80/40M bands with regenerators. I have made up adapters to test all kinds of things in my HB detectors and in the RAL, and basically it makes no real difference because of the external band noise being more than the receiver noise, mostly. When I first got into regens back in my novice days, I was always trying to find the ideal detector tube. Alas, no one ideal tube exists! The only time I have found much real difference is when you go from a really early tube to a really late tube as in an '01A vs a 6AB4 or such. If you go to the average 6C5/6J5/6SN7 or later triode/dualtriode, there is no real difference in my hands. I have tried tetrodes/pentodes, like 24/34/6SK7/6AU6 and found little difference there either. I did get some difference when I used a 6V6 vs something like the 24 or 6SK7, in that the current through the circuits was higher giving higher effective gain at low voltages from the beam pentodes as compared to the normal RF pentodes. Out of all the tubes I have tried, the 76 has been a little hotter than the rest in triodes, but not by enuf to warrant specific use of it on lower hf. The best tetrode/pentode type regen detector I ever found was that darn '24, but that is hard to find these days. For fun I tried an 807 as a detector and that worked about as well as anything else. Steve Linscott in the early Glowbug days even used an 833 as a regen detector, and that worked pretty well. Although I have not tried nuvistors or acorns as regenerators, everything else seems to make not as much difference as using the proper coils/coupling audio circuits and detector control. In my hands the grid circuit is the most important, with the coupling next in importance, and the audio third. The grid leak and coupling capacitor are the most important things that I have found that affect regen performance. The use of the loosest coupling possible to prevent overloading the detector is second. Throttle control with a good condenser and a good tickler or a good screen potentiometer if using ECO circuits and screen-grid voltage regeneration control comes next. After that it is mostly in the audio circuits and headphones. I tend to prefer transformer coupling at lower voltages and choke coupling at higher voltages. The value of choke is not important, since anything above 10 henries with about 0.1-1uFd coupling cap will work as well as a classic 500h choke and 0.01uFd coupling cap. I find choke coupling gives me easier parts procurement than transformer coupling since I rarely find good audio coupling chokes anymore (occasionally they crop up and AES has

some new ones that are fair). Junkbox power supply chokes are quite common and the 0.1 to 1.0ufd 200v milspec unpolarized caps are quite common in junkboxes at hamfests, and in surplus, still. That makes a great audio coupler for input and for output to tin cans. The real National style couplers are scarce as hen's teeth these days, and not really any better than my more cap/less choke approach. Also the DC resistance is much less in the plain power supply choke compared to the 500h chokes, which makes them work better at lower voltages on the plates (remember I like 36-90 volts on the plates and no more, unless you have a compelling reason to use more).

I guess, my play with them would suggest that the tube used is really of lesser importance than other parts of the 2/3-tube circuit (detector and one or two-step audio).

I have heard some folks swear that the '34 was the best regen detector ever made, but in my hands it is not that much different from a 6SK7.

I have not used recent battery tubes such as the 1 volt series so I can't compare those to others directly, in regen use. I always stuck to more normal 6/12 volters where I could drag up an auto battery or such as the filament/heater supply.

In the battery tubes I do use, such as the '01A's and '30's, I find they tend to be a bit noisier due to filament grumblings during use compared to an indirectly heated cathode tube, so I would probably stick to an indirectly heated cathode tube for the most serious regens.

Overall, I would think that it would be ok to use any particular tube you had available that would be similar to what others have used in the past. Works that way for me. Put more emphasis on the construction and quality of the work and the particulars of the circuits and almost any tube will do fine in regenerator service.

Bob/NA4G

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Larry Godek <AZCOT@gnn.com>  
Subject: New Rec.  
Message-ID: <199702261207.HAA29192@mail-e2b.gnn.com>

The first time was a goof by me. Anyway, I took the plunge last Sunday. Went to a local Aircraft auction and found a Collins 51S-1 receiver setting there. Had to wait till late Sunday pm before they got around to it as it was next to last. Red tag on it said that it didn't work, poor power cord and had parts missing. Lookd

good and clean though. I ended up bringing it home. Looked it over and couldn't see anything missing. A trimmer cap underneath in the closed in area had its phenolic mount broken and the power cord did need replacement. At least the outside was in pretty bad shape.

Plugged it in, hooked about 8 ft of wire into the antenna jack and "away we goooooo"!

Works great. Cleaned out a bit of dust, checked all the tubes. Had to replace a few.

Now I haven't been paying any attention to the 51S-1 postings lately as I didn't have one. Had one about 12 years ago and got rid of it. Now another one has shown up. Sounds darn'd good. Works pretty good as well but I can tell its gonna need an alignment. BC stations overload the thing horribly with a wire antenna stuck in the back.

I gotta come up with a manual for one thing. The other is I know there was some discussion about the 6EA8 tubes. Again I didn't pay any attention. All of mine age good in the pentode section but test low/weak in the triode portion. But the radio appears to perform quite well. Do i really need the new tubes or what?

Answers to both portions of this posting would be appreciated as time permits. Oh yes. It came without a cabinet. So, i'm needing one of them as well.

Leads on all the above would be welcomed. I'll probably do with this like everything else I've had. Play with them for a while then pass em on. Only live to regret it later.

Larry Godek W00GH  
AZCOT@gnn.com

Gilbert, AZ. 85233

Ex-W6KQL, W8BPV, DL5LS, K0TAO, KN6TUP

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: "Grant Youngman" <nq5t@gte.net>  
Subject: Northern Radio Model 115 VFO ??  
Message-ID: <199702260245.UAA23434@smtp.gte.net>



Gang ..

Been pouring over the QST on CD-ROM issues that just arrived (1970-1974) and came across an SP600 "update" article by Douglass Blakeslee in the August 1970 issue. He indicates that the subject RF generator was specifically designed for use as an external oven stabilized VFO/BFO for the SP600/SX-73 series receivers.

Wonder if anyone has ever seen or uses one of these things with an SP-600??

-----

As a non-BA aside, the QST CD-ROMs aren't terribly bad, but I do wish the scanning job had been better and at higher resolution. Some of the pages aren't vertical, and both the pictures and text are a bit rough, though readable. I had hoped these might soften my growing desire to acquire the real mags from 1940-1970 or so, but I guess there's still no beating the paper. Sad part is that I used to have these complete years -- then lost them all in a flooded basement 10 years ago, before I realized they were too valuable to relegate to boxes on the floor :-)

Grant/NQ5T

-----

Grant Youngman / NQ5T

nq5t@gte.net  
<http://home1.gte.net/nq5t/index.htm>  
Double Oak, TX -- nr Dallas

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997

From: "William B. Ross" <billross@txdirect.net>

Subject: Re: Northern Radio Model 115 VFO ??

Message-ID: <3314435A.2C1D@txdirect.net>

This "Master Oscillator", as it was called was a real boatanchor. Weighing in at over 40 lbs it was famous for its instability. It had a tuning dial similar to the and contained a crystal oven which caused wide variations in drift as it switched on and off. When the oven was disconnected it drifted all over the place. Hundreds of these units were disposed of through MARTS and salvage yards --- for good reason.

Bill K5LLK

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Ho4bart@aol.com  
Subject: Re: Northern Radio Model 115 VFO ??  
Message-ID: <970226113352\_542714600@emout07.mail.aol.com>

In a message dated 97-02-25 21:49:02 EST, nq5t@gte.net (Grant Youngman) writes:

<< Subj: Northern Radio Model 115 VFO ?? >>

i've always thot it a little strange that there were 2 companies with apparently same names contemporaneously. Northern Radio Co. --- of seattle, which went belly up around 1974 ?? maker of heavy metal boat radios since 1937? or so. and the eastcoast Northern Radio which seems to have made mostly? teletype converters and such? hue miller

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: leeboo@ct.net (Leon Wiltsey)  
Subject: OUTPUT XFORMER  
Message-ID: <199702260355.WAA12862@blue.ct.net>

Am building a ba type audio section for a small rec. Schematic calls for a universal output xformer as load for the amp a 6aq5 tube. Have not been able to locate xformer and am wondering if a ordinary 70v, to voice coil pa type line xformer would work ok? What think you all?.

Thank the good LORD for all that you have!!!

Leon B Wiltsey jr. (Lee)

67yr old semi disabled senior  
(stroke got my balance and coordination)  
play keyboard and sing  
music 1920's to 60'  
none of the 90's noise

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Bob Roehrig <broehrig@admin.aurora.edu>  
Subject: Re: OUTPUT XFORMER  
Message-ID: <Pine.ULT.3.95.970226082023.6018A-1000000@admin.aurora.edu>

On Tue, 25 Feb 1997, Leon Wiltsey wrote:

> Am building a ba type audio section for a small rec.  
> Schematic calls for a universal output xformer as load  
> for the amp a 6aq5 tube. Have not been able to locate  
> xformer and am wondering if a ordinary 70v, to voice coil  
> pa type line xformer would work ok? What think you all?.

Leon: I did just that in one of my old HRO receivers. I don't remember the taps I used, but you can get the correct impedance ratio.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI  
CIS: Data / Telecom Aurora University, Aurora, IL  
630-844-4898 Fax 630-844-5530

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: David Prince <davprin@gil.com.au>  
Subject: Re: Paint Strippers  
Message-ID: <3314D305.2E45@gil.com.au>

>  
> Roger A. McCarty wrote:  
> >  
> > Boy am I disgusted. I began to strip the paint off an HT-44/SX-117  
> > pair with my trusty "Stryp-eze" brand paint stripper. It didn't strip  
> > a bit. So I take it back to the store and complain that it must be old  
> > or weak. They explain to me that the old breed of paint strippers that

I have just recently stripped the wrinkle finish paint off the front panel of a rather worse-for-wear HRO. I also removed the paint from the dial using a brass-wirebrush to get into the calibration marks.

The product I use here is called Kwik Strip made in Australia by the Selleys Company. It is fast acting and contains 86% W/V Methylene Chloride. This may be the stripper that's no longer available in the U.S. On the HRO, it stripped the paint back to bare metal in one application. On R-390A type panels, it requires a few applications of the stripper.

See my other posting with the SUBJECT of Re-painting Engraved Lettering.

--

Dave Prince VK4KDP  
davprin@gil.com.au

--

Dave Prince  
davprin@gil.com.au

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
Subject: Plate chokes for regens!  
Message-ID: <Pine.SUN.3.91.970226082326.5187B-100000@indy2>

Hi!

Every so often, the subject of small regen sets comes up, discussion wanders off to tetrode/pentode regen detectors, and the general wonderfulness of choke coupling the AF is mentioned. I've fielded a few letters by suggesting an interstage audio transformer with the windings in series-aiding, or really careful hamfest scrounging for the real thing.

Well...at Henry van Cleef's urging, I got the Hammond full-line catalog recently, and we just may have a winner: Hammond lists a 150Hy/8mA choke! At first glance, current rating is about right for the typical '58/6U7/(etc.), and while it's not quite the monster National used (700Hy!), it's an awful lot closer than anything else I've seen. (Some of the small-set plans I've seen are said to work okay with far smaller coupling chokes).

Hadn't seen anybody else mention it. so I thought I would. There are a \*lot\* of fascinating things in Hammond's catalog. Appears they're quite serious about the transformer biz, even the useful-with-tubes side!

73,  
--Bobbi

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: rlahlum@juno.com (Ross J Lahlum)  
Subject: Please re-send mail :-(  
Message-ID: <19970226.114611.10414.0.rlahlum@juno.com>

Anybody who sent me mail between 2/19 and today,  
would you please resend it?  
I lost power while reading all my Juno mail (for the  
last 5 days while I was out of town) last night, so  
it's gone in the bit bucket!

Thanks, & sorry to take the  
bandwidth,

73,  
Ross KB9JJR  
rlahlum@juno.com

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Jim Hall <jim\_sr@pophost.micron.net>  
Subject: Puyallup Swap Meet  
Message-ID: <199702260228.TAA05879@snowden.micron.net>

Does anyone have info on the March 8 Puyallup (WA) Swap Meet. I've gone in years past but haven't seen any advertisements about it this year. I'm wondering if it is being advertised sufficiently to make it worthwhile to attend (since I live 500 miles away!). I'm only interested if there will be good participation as in past years.

Thanks,  
Jim Hall W4TVI Boise, ID

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Glen Galati <eldim@worldnet.att.net>  
Subject: Re: Puyallup swap meet  
Message-ID: <19970226105459.AAA28579@GLENGALA>

Announcing the 16th annual 'Mike and Key ARC Electronics Show and Fleamarket' is Saturday, March 8, 1997 at 9 a.m.  
It is held in the Pavilion Exhibition Hall at the Western Washington Fairgrounds, Puyallup WA.(SE of Seattle)  
Talkin 146.82/22(PL 103.5) and 146.58 Simplex  
E-mail inquiries: mwdink@eskimo.com (info only -no reservations)  
We'll see you there!  
73, Glen KA7BOJ

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Cormac Thompson <cormac@televar.com>  
Subject: Re: Puyallup Swap Meet  
Message-ID: <33143DFD.1804@televar.com>

Jim Hall wrote:  
>

> Does anyone have info on the March 8 Puyallup (WA) Swap Meet. I've gone in  
> years past but haven't seen any advertisements about it this year. I'm  
> wondering if it is being advertised sufficiently to make it worthwhile to  
> attend (since I live 500 miles away!). I'm only interested if there will be  
> good participation as in past years.  
>  
> Thanks,  
> Jim Hall W4TVI Boise, ID

The Puyallup Swap Meet is one not to be missed. There will be several  
tables of vintage gear there of particular interest to this group, much  
if it from active and avid AM'ers in the Northwest.

Personally, I'll have over a dozen receivers there and a couple of rare  
pieces that are too much to haul over.

See you there!

Cormac, W7JHS  
cormac@televar.com

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Terry Burge <terrybu@netman.ENS.TEK.COM>  
Subject: Re: Puyallup Swap Meet  
Message-ID: <9702261627.AA19672@netman.ENS.TEK.COM>

Jim and gang,

Puallup has been advertized on 2 meter swapnets and on 3915 Sunday  
morning swapnet for a few weeks now. I have not seen a circular on it  
tho. Have seen them on Coos Bay, Roseburg, SeaPac, Portland and a few  
others but not Puallup. I plan to attend it.

Pulallup fleamarket/swapmeet Mar 8 at the 'Puallup Fairgrounds'  
(for lack of a better discription) Hwy 512 I believe, few miles east of  
I-5 near Tacoma/Seattle. 9AM-?

Terry  
KI7M

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: John <johnmb@mindspring.com>  
Subject: Radio Bygones magazine?  
Message-ID: <199702261933.0AA23659@mailmule1.mindspring.com>

This magazine was mentioned in a recent posting here...can  
on of the listmembers in the UK comment on this? Is it similar  
to Electric Radio? Are subscriptions available in the US?

Comments?

Thanks!

/John

wb5oau/4

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997

From: David Prince <davprin@gil.com.au>

Subject: Re-painting Engraved Lettering

Message-ID: <3314D7CA.4993@gil.com.au>

After repainting front panels, I have found that a good paint to use for Engraved or recessed lettering and/or calibration marks is Chromacryl, an Artist's acrylic paint obtained in tubes similar to tooth-paste tubes. This paint has a paste-like consistency and can easily be painted on using a fine artist's brush. It dries fairly quickly and any excess should be removed with a water-dampened cloth. Once completely dry, it is water resistant. It comes in various colors and I find that it is very good for touching up small chips in wrinkle finish paints. Being a paste, it may be dappled on with a stiff brush to form a wrinkled texture similar to the original paint. This product is made in Australia but a U.S. address is also printed on the tube so it is probably made and/or distributed in the U.S. as well. The address is:- CHROMA ACRYLICS, 205 Bucky Drive, LITITZ, PA. Tel. 717-626-8866.

Another product I find useful to mask over existing lettering when painting is MASKOL. This is made by Humbrol Limited in England. It is a liquid which can be painted on and it then sets to form a latex-like film which can be peeled off after painting is completed.

--

Dave Prince VK4KDP

davprin@gil.com.au

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997

From: John <jackiv@postoffice.worldnet.att.net>

Subject: SCR-610 part

Message-ID: <19970226124427.AAB26568@LOCALNAME>

Hi gang. I am posting this for a friend who is a military radio nut.. He

needs a PE-120 power supply for the SCR-610..Also a canvas bag MK-183.  
Please reply direct so I can put you in touch with him.

No, he does not have a computer--yet.

thanks

Jack Iverson

1110old mill drive

Palatine, IL 60067

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997

From: JOHN\_SEHRING.parti@ecunet.org

Subject: SENSITIVITY, SCHMENSITIVITY (APOLOGIES TO THE

Message-ID: <9702261402.aa05001@pcusa01.ecunet.org>

Well all this talk about sensitivity...

An rx that's too sensitive will much more likely be easily overloaded.  
This'll give rise to inter- and cross-modulation. That'll spoil all that  
'high' sensitivity.

Sufficient sensitivity is: Measure set's own self noise--dummy antenna  
load connected, AGC off, enuf AF gain to hear rf/lf noise, measure with AC  
volt meter. Repeat for different frequencies.

Repeat using intended antenna. If noise rises by more than about 3 dB,  
you've got enuf sensitivity.

Any more sensitivity (greater than 3 dB rise) than that is wasted, for that  
antenna, for that frequency, for those conditions of propagation & QRN.

If antenna noise is more than 3 dB greater than rx's own noise, than  
antenna noise swamps it and is the controlling factor.

-John Sehring (02/24/97 6:38 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997

From: eb5agv@ctv.es

Subject: SP-600-JX restoration, part two

Message-ID: <1.5.4.16.19970226070402.300fac3e@192.168.0.1>

Hi BA gang,

Well, yesterday I started the restoration process... I removed the front  
panel and all parts attached to it. As I told in the first message, the  
painting was in very poor 'visual' condition. I mean that it had some very  
good parts, but the biggest surface was darkened by a thin film of



'transparent' (some time in the past) paint. I guess this was a protective coating. But now, the paint aspect was poor because of the dark (and non uniform) color. On the other hand, where this layer was missing, the painting was in good condition and with a uniform color. So, prior to sandblasting (or at least full removal of the painting), I decided to try to get ride of this ugly coating. In order to preserve the painting, I used an spanish polishment product (called 'Titanlux liquid polishment'). It took about three hours and lots of manual work (hi, my right hand still hurts me!) to get ride of all the coating (except in the parts just below the bigger knobs, where the coating is harder; but it is not visible once the knobs are in place), but the result is excellent!. And, as the polish paste I used didn't damage the paint but gave it a bright finish, now the panel is an 8+!. Only drawbacks are some small spots of peeled off paint (which of course were present at the beginning of the process), but I like to have the original paint. Then I polished also the black dial scutcheons. Now they bright as new!... This polishment paste is really nice! (by the way, a 125 ml can costs about two dollar).

Once finished with the front panel, I began with the dials. A mild soap solution produced a nive looking ones.

Next step was the gear train. In the manual, I read that the gears shouldn't be lubricated... I'm not sure of the reason (any clue?). Anyway, I lubed a bit all of them, with an special good quality grease, and the movement is smoother now.

All of this ended at 23:15 local time so I went to sleep a bit ;-) ...

Today I'll begin putting back the front panel to its place and will take a look to the chassis and the tubes... Perhaps I will fire the receiver... More in the next chapter!.

Thanks for reading this boring series 8-) ... And specially to those who gave me some hints after reading part one.

Of course, any hint about restoring and / or adjusting this receiver will be welcomed!.

Regards.

JOSE

-----  
73 JOSE V. GAVILA (EB5AGV / EC5AAU)  
46910 Benetusser - Valencia (IM99TK)  
SPAIN

\*\*\* PLEASE, VISIT MY HOME PAGE AT : \*\*\*  
<http://www.geocities.com/SiliconValley/6992>

e-mail: eb5agv@ctv.es & eb5agv@amsat.org

-----

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: jcreid@CCGATE.HAC.COM  
Subject: Speaking of paint...  
Message-ID: <9701268569.AA856968852@CCGATE.HAC.COM>

Hi Gang,

All these threads about paint stripping, polishing, matching, etc. reminded me about a product I saw at my local war surplus store. They carry a line of military paints in all the popular colors: Desert Storm, OD, etc. It carries a Federal part # so I'm guessing it matches the Army stuff pretty closely. It's made by Aervoe-Pacific in Gardnerville, NV. I haven't tried the stuff personally, so caveat emptor. The price was right, tho. \$3.98 a can. If anyone has any further info on actual usage, please post it. Good luck!

-Jim N6SVS  
jcreid@ccgate.hac.com

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Richard Hager <rhager@millcomm.com>  
Subject: Re: Starting the electronic tool kit...  
Message-ID: <331473B1.52BC@millcomm.com>

Greg,

For \$100, you should be able to get BOTH a decent used Simpson 260, and a decent DMM, either new or used. The VOM, like a 260, is -always- good to have, regardless of how much fancy modern equip you have. For one thing, it could care less about noise on the wire, or noise in the air. Whereas many digital instruments give unstable or even incorrect readings if there's a lot of RF about.

However, I wouldn't be without a good DMM. If you've seen all the posts this year from people trying to figure out how to accurately set levels and voltages, you can see where owning one very accurate meter can pay for itself.

The best handheld DMM I've ever used is the Fluke 8060A, but it's about \$375 new and \$150 used. However, if you plan to own and use your DMM for many years, I think the investment is very much worth it. I just decided not to think about the cost, and charged it on plastic. I've never regretted it.

The 8060A is a 4.5 digit instrument, with excellent basic accuracy. It also has the following, all of which I find extremely useful on the bench:

- True RMS AC (this is very important, but too long to get into here)

- Relative button. I use this a dozen times a day. You hit the button and it zero's the display at whatever reading it's currently at. For example, you can zero out the lead resistance and get an accurate measurement of a low-ohms coil.

- DB mode. In conjunction with the true-RMS, this gives you accurate readout of AF or low-IF power levels, regardless of distortion, and in units that are useful for this type of work. Plus, you can use the Relative button to get DB differences between one point and the next, etc., etc..

The 8060A also has freq counter to 200khz or so. I don't use it much, preferring to use my counter with a scope probe.

I will also say that I've dropped my 8060A far enough and hard enough to break the little stand off the back three times now in the past ten years, plus I've cracked the case itself open (40' drop onto concrete). None of this abuse has affected the meter in any way. (A few years ago, I bought 5 spare stands and a spare case from Fluke Parts, hee hee...).

I have several multi-kilodollar System DMM's in my lab, up to 6.5 digit, but I have to admit that I do 80% of my work with that little Fluke.

Hope this helps a little. Bottom line: Shop for -quality- and -accuracy-. -That's- what is important in test equipment. The number of built-in functions like counter, cap-checker, etc., is really of secondary importance.

Richard

--

Richard Hager

- + Ah-ha! Design Group, Inc. -
- + Precision CNC Technology, since 1991 -
- + 612-641-1797, Fax: 612-641-8681 -
- + "I just like to make things" so... -
- + ...for CNC info, please call Ah-ha! direct -
- + <http://www.ahha.com> email: [sales@ahha.com](mailto:sales@ahha.com) -

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: Mike Warren <m\_warren@compuserve.com>  
Subject: WI Ham Auction Results  
Message-ID: <199702260834\_MC2-11C1-DBE8@compuserve.com>

Hi Gang,

Attended an auction put on by Eau Clair, WI repeater clubs last night.  
About 125 in attendance and it took 4-1/2 hours.

Here were some prices:  
Knight Star Roamer - \$40  
Halli S-38 - 55;  
Halli S-38C - 40  
Globe Scout 680 - 60  
Natl NC-173 - 75  
Natl. NC-57 - 50  
Drake 2C - 95  
Drake TR-3/RV-3 - 100  
RME VHF converter (152?) - 15  
Heath SB-102 w/PS - 70  
Military R-48/??? UHF rcvr - 5  
Military BC-221 - 9  
B&K mutualconductance tube tester - 17  
Hammarlund HQ-110 w/clock - 85 (followed me home)

Following had minimum bids and did not sell:  
Heath HW-101 - \$100  
Gonset Comm. III - 65  
Gonset Comm.IV - 95

73,

Mike W5MAZ (in MN)  
m\_warren@compuserve.com

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: Laird\_Tom\_N@hpmail1.90.deere.com  
Subject: WTB: EV664 Mic 2nd request  
Message-ID: <H00005a004b40c98@MHS>

This is my second request for a clean working EV 664 microphone and  
stand. Anybody have one? Would consider one without the stand also.

Tom Laird WC9M Moline, IL  
TL39597@deere.com

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: John <johnmb@mindspring.com>  
Subject: WTB: Globe/WRL VFO  
Message-ID: <199702261422.JAA12476@mailmule0.mindspring.com>

Looking to find a VFO to go with a piece of Globe/WRL gear  
I just traded for. Anyone have one they're not using?  
Best  
/John

From boatanchors@theporch.com Wed Feb 26 08:17:29 1997  
From: DEE ALMQUIST <soundnmind@rica.net>  
Subject: WTD VALIANT TRANSF  
Message-ID: <19970226043939328.AAA459@har-dialin-14.rica.net>

Greetings Fellow Anchorites  
I am working on a couple of Johnson Valiants and I have a problem. One of these babies came with the wrong HV transformer. A Invader transformer. So now I have two Invader transf. They produce too high voltage and not enuf current. Anyone need one? Anyone have the original Valient HV transformer or equivilant that you will part with? Approx 1300V ct @ approx 600ma. Have other "iron" or better yet tubes to trade or ??  
Thanks  
Dee Almquist, W4PNT

PATTY AND DEE'S MARINA, COLLECTORS OF RADIO AND AUDIO BOATANCHORS.  
(800) 755-2365 PO Box 371 Crimora, Va. 24431 fax:(540)249-5064

From boatanchors@theporch.com Wed Feb 26 14:23:17 1997  
From: DEE ALMQUIST <soundnmind@rica.net>  
Subject: WTD VALIANT TRANSF  
Message-ID: <19970226201524187.AAA332@har-dialin-18.rica.net>

>Date: Tue, 25 Feb 1997 23:39:42  
>To: boatanchors@theporch.com  
>From: DEE ALMQUIST <soundnmind@rica.net>  
>Subject: WTD VALIANT TRANSF  
>  
>Greetings Fellow Anchorites  
>I am working on a couple of Johnson Valiants and I have a problem. One of these babies came with the wrong HV transformer. A Invader transformer. So now I have

>two Invader transf. They produce too high voltage and not enuf current.  
Anyone need one? Anyone have the original Valient HV transformer or  
equivilant that you will part with? Approx 1300V ct @ approx 600ma. Have  
other "iron" or better yet tubes to trade or SP600 panel(refinished), SP600  
rf deck.

>Thanks

>Dee Almquist, W4PNT

>

>PATTY AND DEE'S MARINA, COLLECTORS OF RADIO AND AUDIO BOATANCHORS.

>(800) 755-2365 PO Box 371 Crimora, Va. 24431 fax:(540)249-5064

This may be a duplicate post if so apologies. I couldnt find one sent last nite.